

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1430 Alexascins, Virginia 22313-1450 www.nepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/049,647	08/19/2002	Patrice Toillon	219872US2 XPCT	7484
22850 7550 04/21/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			LEE, BETTY E	
ALEXANDRI	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			2619	
			NOTIFICATION DATE	DELIVERY MODE
			04/21/2008	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

### Application No. Applicant(s) 10/049,647 TOILLON ET AL. Office Action Summary Examiner Art Unit BETTY LEE 2619 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 February 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 33-60 and 62-73 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 33-50,62 and 64-68 is/are rejected. 7) Claim(s) 51-60,63 and 69-73 is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date \_\_\_\_\_\_\_.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Art Unit: 2619

#### DETAILED ACTION

### Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 33-37, 39, 40, 42, 43, 45, 46, 48, 49, 62, and 64-67 are rejected under 35
   U.S.C. 102(e) as being anticipated by Sherer et al. (US 6,115,376).

Regarding claims 33, 64, 65, and 66, Sherer teaches a monitoring device for a multichannel numeric switch (see Fig. 1 Box 10), the switch including a connecting interface for connecting physical connection circuits to a transmission medium (see Fig. 2 Items 34-37), defining at least one of source and destination ports (see Fig. 1 Items 21-25), the connecting interface including a physical layer and a logical layer (see Fig. 2 "Port 0 (Mac Filter)" and Box 30), and a processing unit for carrying out selective switching of multifield data grids between the different ports (see Fig. 1 Box 10), the monitoring device comprising:

a probe unit coupled selectively to the connecting interface, configured to observe data between the physical layer and the logical layer (see Fig. 2 "Port 0 (Mac Filter)"); and

Art Unit: 2619

a monitoring unit configured to analyze contents of at least part of the data grids probed by the probe unit (see col. 4 lines 51-60), to generate a warning message to the logical layer when the part analyzed does not meet a selected condition (see col. 5 lines 12-14) and to make the warning message compatible with an associated port of the logical layer, to output the warning message to the logical layer (see col. 6 lines 6-45), and to trigger rejection of a grid (see col. 4 lines 51-60) probed by the probe unit upon transmission of the warning message (see col. 6 lines 19-26).

Regarding claims 34 and 35, Sherer further teaches the monitoring unit is further configured to analyze contents of at least part of a field of the data grids probed by the probe unit (see col. 4 lines 51-60).

Regarding claim 36, Sherer further teaches the probe unit is configured to probe grids including at least one of a logic channel field, a physical channel field, and a data field (see col. 4 lines 51-60).

Regarding claim 37, Sherer further teaches the probe unit is configured to probe grids including at least one of a grid start field, a destination port address field, a source port address field, and a data field (see col. 4 lines 50-61).

Regarding claims 39 and 40, Sherer further teaches the monitoring unit comprises a table of correspondence specifying for each port connected to the connection circuits a list of authorized grids comprising at least the ports with which the respective port can exchange grids (see col. 6 lines 6-14; The MAC address is linked to the network interface card, which is connected to a port on the device.), and the monitoring unit is further configured to compare contents of this table of correspondence

Art Unit: 2619

to that of at least one of the fields of the grid being transferred (see col. 6 lines 19-26), to generate the warning message when its field or fields analyzed designate a port that does not have a correspondence with the source port transmitting the grid, this correspondence forming a chosen condition (see col. 6 lines 19-45).

Regarding claim 42, Sherer further teaches the analyzed field or fields is or are chosen from at least the logic channel field and the physical channel field (see col. 6 lines 19-26).

Regarding claim 43, Sherer further teaches the analyzed field or fields is or are chosen from at least the destination port address field of the grid and the source port address field of the grid (see col. 6 lines 6-26).

Regarding claim 45, Sherer further teaches the table of correspondence includes for each source or destination port at least one list of associated destination addresses, a list of associated source addresses, a list of grid flux types authorized on the port, accompanied by temporal features of each of the fluxes, and a list of the grid lengths authorized to circulate on the port (see col. 6 lines 6-26; The table includes MAC addresses.).

Regarding claim 46, Sherer further teaches the table of correspondence is stored in a modifiable memory selected from at least a live memory, a flash memory, and an assembly of registers each associated with a port and having an individually configurable content (see col. 6 lines 19-41; Addresses can be added and removed form the table for specific ports.).

Application/Control Number: 10/049,647
Art Unit: 2619

Regarding claim 48, Sherer further teaches the monitoring unit is configured to effect its comparison on the logic channel field, then on the physical channel field (see col. 6 lines 19-41).

Regarding claim 49, Sherer further teaches the monitoring unit is configured to effects its comparison on the destination address field, then on the source address field (see col. 6 lines 19-26; The comparison is done between the specific port and the MAC address.).

Regarding claim 62, Sherer further teaches the monitoring unit is configured, upon transmission of the warning message, to trigger the processing unit to reject the grid probed by the probe unit (see col. 6 lines 19-26).

Regarding claim 67, Sherer teaches a monitoring device for a multichannel numeric switch (see Fig. 1 Box 10), the switch including a connecting interface for connecting physical connection circuits to a transmission medium (see Fig. 2 Items 34-37), defining at least one of source and destination ports (see Fig. 1 Items 21-25), the connecting interface including a physical layer and a logical layer (see Fig. 2 "Port 0 (Mac Filter)" and Box 30), and a processing unit for carrying out selective switching of multifield data grids between the different ports (see Fig. 1 Box 10), the monitoring device comprising:

a probe unit coupled selectively to the connecting interface (see Fig. 2 "Port 0 (Mac Filter)"); and

a monitoring unit configured to analyze contents of at least part of the data grids probed by the probe unit (see col. 4 lines 51-60), and configured to generate a warning

Application/Control Number: 10/049,647 Page 6

Art Unit: 2619

message to the logical layer when the part analyzed does not meet a selected condition (see col. 5 lines 12-14)

where the probe unit is configured to probe grids including at least one of a logic channel field, one physical channel field, and a data field (see col. 4 lines 51-60),

where the monitoring unit comprises a table of correspondence specifying for each port connected to the connection circuits a list of authorized grids comprising at least the ports with which the respective port can exchange grids (see col. 6 lines 6-14; The MAC address is linked to the network interface card, which is connected to a port on the device.),

where the monitoring unit is further configured to compare contents of this table of correspondence to that of at least one of the fields of the grid being transferred (see col. 6 lines 19-26), to generate the warning message when its field or fields analyzed designate a port that does not have a correspondence with the source port transmitting the grid, this correspondence forming a chosen condition (see col. 6 lines 19-45), and to make the warning message compatible with an associated port for the connection interface (see col. 6 lines 6-45).

### Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 7

Application/Control Number: 10/049,647 Art Unit: 2619

- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - Resolving the level of ordinary skill in the pertinent art.
  - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 38, 41, 44, 47, 50, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sherer et al. (US 6,115,376) in view of Mori (US 6,172,991).

Regarding claim 38, Sherer teaches a probe unit configured to probe grids (see col. 4 lines 51-60). Sherer teaches all the subject matter of the claimed invention with the exception of the probing at least one of a virtual path identifier field, a virtual channel identifier field, a payload type field, and a data field.

However, Mori teaches probing at least one of a virtual path identifier field, a virtual channel field, a payload type field, and a data field (see col. 3 lines 49-67). Thus,

Art Unit: 2619

it would have been obvious to one of ordinary skill in the art to use the system of Mori in the system of Sherer. The motivation for doing so is to make the system more flexible and allow it to be used in an ATM environment.

Regarding claims 41, Sherer further teaches the monitoring unit comprises a table of correspondence specifying for each port connected to the connection circuits a list of authorized grids comprising at least the ports with which the respective port can exchange grids (see col. 6 lines 6-14; The MAC address is linked to the network interface card, which is connected to a port on the device.), and the monitoring unit is further configured to compare contents of this table of correspondence to that of at least one of the fields of the grid being transferred (see col. 6 lines 19-26), to generate the warning message when its field or fields analyzed designate a port that does not have a correspondence with the source port transmitting the grid, this correspondence forming a chosen condition (see col. 6 lines 19-45).

Regarding claim 44, Sherer teaches all the subject matter of the claimed invention with the exception of the analyzed field or fields is or are chosen from at least the virtual path identifier field and the virtual channel identifier field. However, Mori teaches the analyzed field or fields is or are chosen from at least the virtual path identifier field and the virtual channel identifier field (see col. 5 lines 16-32). Thus, it would have been obvious to one of ordinary skill in the art to use the system of Mori in the system of Sherer. The motivation for doing so is to make the system more flexible and allow it to be used in an ATM environment.

Application/Control Number: 10/049,647
Art Unit: 2619

Regarding claim 47, Sherer further teaches the memory is configured to permit access by writing and/or reading for monitoring (see col. 6 lines 19-41).

Regarding claim 50, Sherer teaches the monitoring unit is configured to effect a comparison based on data contained in a table and fields in the cell (see col. 4 lines 51-60). Sherer teaches all the subject matter of the claimed invention with the exception that the comparison is done between the data contained in a table and the virtual path identifier field and the virtual channel identifier field.

However, Mori teaches using the virtual path identifier and virtual channel identifier of a cell to filter a packet (see col. 5 lines 16-32). Thus, it would have been obvious to one of ordinary skill in the art to use the system of Mori in the system of Sherer. The motivation for doing so is to make the system more flexible and allow it to be used in an ATM environment.

Regarding claim 68, Sherer teaches all the subject matter of the claimed invention with the exception of the monitoring unit is further configured to determine whether an address of a destination grid of the data does not correspond to the port analyzed by the respective monitoring unit. However, Mori teaches the monitoring unit is further configured to determine whether an address of a destination grid of the data does not correspond to the port analyzed by the respective monitoring unit (see col. 4 lines 19-56; The filtering table is searched based on the TCP/UDP port number to see if the data is allowable.).

Page 10

Application/Control Number: 10/049,647

Art Unit: 2619

#### Allowable Subject Matter

Claims 51-60, 63, and 69-73 would be allowable if rewritten to overcome the
objections set forth in this Office action and to include all of the limitations of the base
claim and any intervening claims.

#### Response to Arguments

 Applicant's arguments filed February 04, 2008 have been fully considered but they are not persuasive.

With respect to applicant's arguments regarding claims 33 and 67, applicant submits that Sherer does not teach "to generate a warning message to the logical layer when the part analyzed does not meet a selected condition and to make the warning message compatible with an associated port of the logical layer." Examiner respectfully disagrees.

Sherer teaches receiving a packet, and if the source address is not in the table, a challenge is issued (see col. 6 lines 19-30). The challenge is used to discard the packet and to send a notification message. The challenge is compatible with an associated port of the logical layer since the challenge is sent between two ports of a network device.

#### Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Page 11

Application/Control Number: 10/049,647
Art Unit: 2619

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BETTY LEE whose telephone number is (571)270-1412. The examiner can normally be reached on Monday-Thursday 9-5 EST and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/049,647 Page 12

Art Unit: 2619

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Betty Lee Examiner, Art Unit 2619

/Hassan Kizou/ Supervisory Patent Examiner, Art Unit 2619